

ABSTRACT OF THE DISCLOSURE

According to the present invention, there is provided a variable resistance circuit comprising,

5 a resistor unit having a plurality of resistors series-connected between an input terminal and a predetermined potential terminal, and a switch group including a plurality of switches each having one end connected to a node between the input terminal and the
10 resistor, a node between the resistors, or a node between the resistor and the predetermined potential terminal, and the other end connected to an output terminal; and

15 a switch control circuit which supplies a control signal to the switch group,

 wherein an attenuation step is generated by supplying the control signal to a pair of adjacent switches included in the switch group so as to complementarily, periodically turning on/off the pair of
20 switches at a duty of a/b (a and b are positive integers which satisfy $a < b$) for one switch and a duty of $(b-a)/b$ for the other switch.